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## PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER AC	TION	See Form PCT/IPEA/416		
Internationa	al application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US04/23127 19 July 2004 (19.0			4)	23 July 2003 (23.07.2003)		
Internationa	al Patent Classification (IPC)	or national classification ar	id IPC			
	<b>12P 19/02</b> ( 2007.01) 35/105					
Applicant						
NOVOZYN	MES NORTH AMERICA, IN	C				
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2.	This REPORT consists of	a total of sheets, incl	luding this cover sheet	•		
	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  ——————————————————————————————————					
4. '	This report contains indica	tions relating to the follo	wing items:			
	Box No. I B	asis of the report				
	Box No. II P1	iority				
		on-establishment of opini plicability	ion with regard to nove	elty, inventive step and industrial		
	Box No. IV La	ck of unity of invention				
	Box No. V Re	easoned statement under dustrial applicability; cita	Article 35(2) with ations and explanations	regard to novelty, inventive step or supporting such statement		
,		ertain documents cited	1	ent Language and an analysis		
	Box No. VII C	ertain defects in the interr	national application			
	Box No. VIII Ce	ertain observations on the	international application	ion		
Date of submission of the demand			Date of completion of	of this report		
05 May 2005 (05.05.2005)			11 December 2006 (11	12 2006)		
Name and mailing address of the IPEA/ US				. "" . "		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents			m: 60	Janeie Ford		
P.C	D. Box 1450		Tiffany M. Gough	To		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201			Telephone No. 571-27	2-1600		
	EA/409 (cover sheet)(April 20	005)				

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	- ·
PCT/US04/23127	

Bo	x No	I B	asis of the report				
1.	With	regard	to the language, this report is based on:				
	$\boxtimes$	the in	the international application in the language in which it was filed.				
			slation of the international application into, which is the language of a translation furnished for the ses of:				
			international search (under Rules 12.3 and 23.1(b))				
			publication of the international application (under Rule 12.4(a))				
			international preliminary examination (under Rules 55.2(a) and/or 55.3(a))				
2.	to the	e receiv xed to ti	ard to the elements of the international application, this report is based on (replacement sheets which have been furnished ceiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not to this report):				
			ternational application as originally filed/furnished scription:				
			1-14 as originally filed/furnished				
		-	* NONE received by this Authority on				
		• -	* NONE received by this Authority on				
	$\nabla$	the cla	nime:				
			15-17 as originally filed/furnished				
			* NONE as amended (together with any statement) under Article 19				
			* NONE received by this Authority on				
			* NONE received by this Authority on				
		tha dr					
			awings:				
			NONE as originally filed/furnished NONE received by this Authority on				
		pages	* NONE received by this Authority on				
		a sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.		The ar	mendments have resulted in the cancellation of:				
			the description, pages				
			the claims, Nos				
			the drawings, sheets/figs				
			the sequence listing (specify):				
			any table(s) related to the sequence listing (specify):				
4.		This resince the	port has been established as if (some of) the amendments annexed to this report and listed below had not been made, sey have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
			the description, pages				
			the claims, Nos				
			the drawings, sheets/figs				
			the sequence listing (specify):				
			any table(s) related to the sequence listing (specify):				
* IJ	<sup>c</sup> item	4 appl	ies, some or all of those sheets may be marked "superseded."				

Form PCT/IPEA/409 (Box No. I) (April 2005)

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

3.

International application No.

PCT/US04/23127

Box No	. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The que	estions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be ally applicable have not been examined in respect of:
	the entire international application
$\boxtimes$	claims Nos. <u>4-14</u>
	because:
	the said international application, or the said claim Nos relate to the following subject matter which does not require an international preliminary examination (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 4-14 are so unclear that no meaningful opinion could be formed (specify):
Claims 4-	-14 are dependent claims and are not drafted in accordance with the second and third sentences of PCT Rule 6.4(a).
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
	no international search report has been established for said claims Nos
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.  furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the
	Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details

Form PCT/IPEA/409 (Box No. III) (April 2005)

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/23127

Box No. V	Reasoned statement under Art applicability; citations and exp	icle 35(2) with regard to novelty, inventive step or industrial lanations supporting such statement	<del></del>
1. Statemen	t		
N	lovelty (N)	Claims <u>1-3, 15-20</u>	YES
		Claims NONE	NO
Ir	ventive Step (IS)	Claims <u>1-3, 15-20</u>	YES
		Claims NONE	NO
Ir	dustrial Applicability (IA)	Claims 1-3, 15-20	YES
		Claims NONE	NO
2. Citations	and Explanations (Rule 70.7)		

2. Citations and Explanations (Rule 70.7)
Claims 1-3 and 15-20 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a process of saccharification by treating with glucoamylase at a pH from 5.5-6.2 and at temperatures of 50-80°C.

Claims 1-3 and 15-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box No. V) (April 2005)